



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ENVIRONMENTAL

Valid To: April 30, 2023

Certificate Number: 5044.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with the 2009 TNI Environmental Testing Laboratory Standard and the requirements of the DOE Consolidated Audit Program as detailed in version 5.3 of the DOE Quality Systems Manual for Environmental Laboratories) accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies

Gas Chromatography, High Resolution Gas Chromatography/High Resolution Mass Spectrometry, High Pressure Liquid Chromatography/ Mass Spectrometry/ Mass Spectrometry

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
<u>General Chemistry</u>			
Alkalinity as CaCO ₃	EPA 310.1 SM 2320B	-----	-----
Amenable Cyanide	EPA 335.1 EPA 9012B EPA 9014	EPA 9012B EPA 9014	EPA 9012B EPA 9014
Bromide	EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Chloride	EPA 300 EPA 9056A	EPA 300 EPA 9056A	EPA 300 EPA 9056A
Conductivity	EPA 120.1 EPA 9050A SM 2510B	EPA 9050A	EPA 9050A
Corrosivity Towards Steel	EPA 1110A	EPA 1110A	-----
Density	-----	ASTM D5057	ASTM D5057
Fluoride	SM 4500F C EPA 340.2 EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Ignitability	EPA 1010A ASTM D93	EPA 1010A ASTM D93	EPA 1030 EPA 1010A ASTM D93

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
n-Hexane Extractable Material (O&G)	EPA 1664B	EPA 1664B	EPA 9071B
Nitrate as N	EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Nitrate plus nitrite as N	EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Nitrite as N	EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Oil and Grease	EPA 1664B	EPA 1664B	EPA 9071B
Orthophosphate as P	EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Oxidizing Solids	-----	-----	EPA 1040 UN 34.4.1
Paint Filter	-----	-----	EPA 9095B
pH / Corrosivity	EPA 150.1 EPA 9040C	EPA 9040C	EPA 9045D
Residue-filterable (TDS)	EPA 160.1 SM 2540C	-----	-----
Residue-nonfilterable (TSS)	EPA 160.2 SM 2540D	-----	-----
Silica Gel Treated n-Hexane Extractable Material (SGT-HEM)	EPA 1664B	EPA 1664B	EPA 9071B
Substances Likely to Spontaneously Combust/Self Heat	-----	-----	EPA 1050 UN 33.3.1.4 UN 33.3.1.6
Sulfate	EPA 300 EPA 9056A	EPA 9056A	EPA 9056A
Sulfide	EPA 376.1 EPA 9034	EPA 9034	EPA 9034
Total Cyanide	EPA 335.2 EPA 335.4 SW 846 9012B SW 846 9014	SW 846 9012B SW 846 9014	SW 846 9012B SW 846 9014
Total Hardness as CaCO3 by Calculation	EPA 2340B	EPA 2340B	EPA 2340B
Total Organic Carbon (TOC)	EPA 415.1 EPA 9060A EPA 9060M	EPA 415.1 EPA 9060A EPA 9060M	EPA 9060A EPA 9060M
Total Petroleum Hydrocarbons	EPA 1664B	EPA 1664B	EPA 9071B
<u>Metals</u>			
Aluminum	EPA 200.7 & 200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Antimony	EPA 200.7 & 200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Arsenic	EPA 200.7 & 200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Barium	EPA 200.7 & 200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Beryllium	EPA 200.7 & 200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Boron	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Cadmium	EPA 200.7 & 200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Calcium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Chromium	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Cobalt	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Copper	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Iron	EPA 200.7 EPA 6010D	EPA 6010D	EPA 6010D
Lead	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Lithium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Magnesium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Manganese	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Molybdenum	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Nickel	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Phosphorus	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Potassium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Selenium	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Silicon	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Silver	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Sodium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Strontium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Technetium-99	EPA 6020B	EPA 6020B	EPA 6020B
Thallium	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Thorium	EPA 200.8	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Tin	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Titanium	EPA 200.7 EPA 6010D	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Uranium	EPA 200.8	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Vanadium	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Zinc	EPA 200.7/200.8 EPA 6010D EPA 6020B	EPA 6010D EPA 6020B	EPA 6010D EPA 6020B
Mercury	EPA 245.1 EPA 7470A EPA 7471B	EPA 7470A	EPA 7471B
<u>Preparatory Methods</u>			
Toxicity Characteristic Leaching Procedure (Inorganics, Extractable Organics, Volatile Organics)	EPA 1311	EPA 1311	EPA 1311
Synthetic Precipitation Leaching Procedure	EPA 1312	EPA 1312	EPA 1312
Acid Digestion for Aqueous Samples	EPA 3005A	EPA 3005A	-----

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Acid Digestion for Aqueous Samples	EPA 3010A	EPA 3010A	-----
Acid Digestion for Aqueous Samples	EPA 3020A	EPA 3020A	-----
Acid Digestion for Sediments, Sludges and Soils	-----	-----	EPA 3050B
Purge-and-Trap for Aqueous Samples	-----	EPA 5030B	-----
Closed-System Purge-and-Trap and Extraction for Soil and Waste Samples	-----	-----	EPA 5035
Separatory Funnel Liquid-Liquid Extraction	-----	EPA 3510C	-----
Continuous Liquid – Liquid Extraction	-----	EPA 3520C	-----
Sonication Extraction	-----	-----	EPA 3550C
Sulfuric Acid Cleanup	EPA 3665A	EPA 3665A	EPA 3665A
Sulfur Cleanup	EPA 3660A	EPA 3660A	EPA 3660A
Florisil Cleanup	EPA 3620C	EPA 3620C	EPA 3620C
<u>Radiochemistry</u>			
Tritium	EPA 906.0	EPA 906.0	EPA 906.0
Carbon-14	EPA 906.0	EPA 906.0	EPA 906.0
Americium, Isotopic	HASL-300 Se-03-RC EPA Method 907.0	EML HASL-300 Am-04-RC Eichrom ACW03 Eichrom ACW16 VBS	EML HASL-300 Am-01-RC Eichrom ACW03 Eichrom ACW16 VBS
Curium, Isotopic	EPA Method 907.0	Eichrom ACW16 VBS	Eichrom ACW16 VBS
Plutonium, Isotopic	HASL-300 Se-03-RC EPA Method 907.0	EPA EMSL LV 053917, p.33 HASL-300 Am-06-RC Eichrom ACW03 Eichrom ACW16 VBS	EPA EMSL LV 053917, p.33 HASL-300 Am-06-RC Eichrom ACW03 Eichrom ACW16 VBS
Uranium, Isotopic	HASL-300 Se-03-RC EPA Method 907.0	EPA 908.0 EPA EMSL LV 053917, p.33 Eichrom ACW03 Eichrom ACW16 VBS	EPA 908.0 EPA EMSL LV 053917, p.33 Eichrom ACW03 Eichrom ACW16 VBS
Uranium, Isotopic	EPA 6020B	EPA 6020B	EPA 6020B
Thorium, Isotopic	EPA Method 907.0	EPA EMSL LV 053917, p.33 Eichrom ACW08 VBS Eichrom ACW16 VBS	EPA EMSL LV 053917, p.33 Eichrom ACW08 VBS Eichrom ACW16 VBS

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Neptunium-237	EPA Method 907.0	Eichrom ACW08 VBS Eichrom ACW16 VBS	Eichrom ACW08 VBS Eichrom ACW16 VBS
Strontium-89/90	EPA 905.0	EPA EMSL LV 053917, p.65 Eichrom SRW01 VBS	EPA EMSL LV 053917, p.65 Eichrom SRW01 VBS
Gross Alpha	EPA 900.0 SM 7110B SM 7110C	EPA 9310	EPA 9310
Gross Beta	EPA 900.0 SM 7110B	EPA 9310	EPA 9310
Radium-226	EPA 903.0	EPA 9315	EPA 9315
Radium-228	EPA 904.0	EPA 9320	EPA 9320
Gamma	EPA 901.1	EPA 901.1 HASL-300 Ga-01-R	EPA 901.1 HASL-300 Ga-01-R
Iron-55	Eichrom FEW01	Eichrom FEW01 EML HASL 300 Fe-01- RC	Eichrom FEW01 EML HASL-300 Fe-01- RC
Lead-210	Eichrom OTW01	Eichrom OTW01	Eichrom OTW01
Technetium-99	-----	EML HASL-300 Tc-01- RC Eichrom TCW01 VBS	EML HASL-300 Tc-01- RC Eichrom TCS01
Nickel-59	DOE Methods Compendium RP 300A	Eichrom NIW01	Eichrom NIW01
Nickel-63	DOE Methods Compendium RP 300A	Eichrom NIW01	Eichrom NIW01
I-129	SM 7500I B EPA 902.0	EPA 902.0	EPA 902.0
<u>PCBs</u>			
Aroclor -1016	EPA 608.3	EPA 8082A	EPA 8082A
Aroclor -1221	EPA 608.3	EPA 8082A	EPA 8082A
Aroclor -1232	EPA 608.3	EPA 8082A	EPA 8082A
Aroclor -1242	EPA 608.3	EPA 8082A	EPA 8082A
Aroclor -1248	EPA 608.3	EPA 8082A	EPA 8082A
Aroclor -1254	EPA 608.3	EPA 8082A	EPA 8082A
Aroclor -1260	EPA 608.3	EPA 8082A	EPA 8082A
<u>Dioxin/Furans</u>			
OCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
OCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,4,6,7,8-HpCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,4,6,7,8-HpCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,4,7,8,9-HpCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,4,7,8-HxCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,4,7,8-HxCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,6,7,8-HxCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,6,7,8-HxCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,7,8,9-HxCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,7,8,9-HxCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,7,8-PeCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
1,2,3,7,8-PeCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
2,3,4,6,7,8-HxCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
2,3,4,7,8-PeCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
2,3,7,8-TCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
2,3,7,8-TCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total HpCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total HpCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total HxCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total HxCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total PeCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total PeCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
Total TCDF	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Total TCDD	EPA 1613B	EPA 8280B EPA 8290A	EPA 8280B EPA 8290A
<u>Pesticides</u>			
alpha-BHC	EPA 608.3	EPA 8081B	EPA 8081B
beta-BHC	EPA 608.3	EPA 8081B	EPA 8081B
delta-BHC	EPA 608.3	EPA 8081B	EPA 8081B
gamma-BHC (Lindane)	EPA 608.3	EPA 8081B	EPA 8081B
Heptachlor	EPA 608.3	EPA 8081B	EPA 8081B
Aldrin	EPA 608.3	EPA 8081B	EPA 8081B
Heptachlor Epoxide	EPA 608.3	EPA 8081B	EPA 8081B
Endosulfan I	EPA 608.3	EPA 8081B	EPA 8081B
Dieldrin	EPA 608.3	EPA 8081B	EPA 8081B
4,4'-DDE	EPA 608.3	EPA 8081B	EPA 8081B
Endrin	EPA 608.3	EPA 8081B	EPA 8081B
Endosulfan II	EPA 608.3	EPA 8081B	EPA 8081B
4,4'-DDD	EPA 608.3	EPA 8081B	EPA 8081B
Endosulfan sulfate	EPA 608.3	EPA 8081B	EPA 8081B
4,4'-DDT	EPA 608.3	EPA 8081B	EPA 8081B
Methoxychlor	EPA 608.3	EPA 8081B	EPA 8081B
Endrin ketone	EPA 608.3	EPA 8081B	EPA 8081B
Endrin aldehyde	EPA 608.3	EPA 8081B	EPA 8081B
alpha-Chlordane	EPA 608.3	EPA 8081B	EPA 8081B
gamma-Chlordane	EPA 608.3	EPA 8081B	EPA 8081B
Chlordane	EPA 608.3	EPA 8081B	EPA 8081B
Toxaphene	EPA 608.3	EPA 8081B	EPA 8081B

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
<u>Non-Halogenated Organics</u>			
Ethanol	EPA 8015B	EPA 8015B	EPA 8015B
Isopropyl alcohol	EPA 8015B	EPA 8015B	EPA 8015B
Methanol	EPA 8015B	EPA 8015B	EPA 8015B
<u>Volatiles</u>			
Dichlorodifluoromethane	EPA 624 mod.	EPA 8260D	EPA 8260D
Chloromethane	EPA 624	EPA 8260D	EPA 8260D
Vinyl chloride	EPA 624	EPA 8260D	EPA 8260D
Bromomethane	EPA 624	EPA 8260D	EPA 8260D
Chloroethane	EPA 624	EPA 8260D	EPA 8260D
Acetone	EPA 624 mod.	EPA 8260D	EPA 8260D
Trichlorofluoromethane	EPA 624	EPA 8260D	EPA 8260D
1,1-Dichloroethene	EPA 624	EPA 8260D	EPA 8260D
Methylene chloride	EPA 624	EPA 8260D	EPA 8260D
Carbon disulfide	EPA 624 mod.	EPA 8260D	EPA 8260D
trans-1,2-Dichloroethene	EPA 624	EPA 8260D	EPA 8260D
1,1-Dichloroethane	EPA 624	EPA 8260D	EPA 8260D
2-Butanone	EPA 624 mod.	EPA 8260D	EPA 8260D
cis-1,2-Dichloroethene	EPA 624	EPA 8260D	EPA 8260D
Bromochloromethane	EPA 624 mod.	EPA 8260D	EPA 8260D
Chloroform	EPA 624	EPA 8260D	EPA 8260D
2,2-Dichloropropane	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2-Dichloroethane	EPA 624	EPA 8260D	EPA 8260D
1,1,1-Trichloroethene	EPA 624	EPA 8260D	EPA 8260D
1,1-Dichloropropene	EPA 624 mod.	EPA 8260D	EPA 8260D

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Benzene	EPA 624	EPA 8260D	EPA 8260D
Carbon tetrachloride	EPA 624	EPA 8260D	EPA 8260D
Dibromomethane	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2-Dichloropropane	EPA 624 mod.	EPA 8260D	EPA 8260D
Bromodichloromethane	EPA 624	EPA 8260D	EPA 8260D
Trichloroethene	EPA 624	EPA 8260D	EPA 8260D
4-Methyl-2-pentanone	EPA 624 mod.	EPA 8260D	EPA 8260D
cis-1,3-Dichloropropene	EPA 624 mod.	EPA 8260D	EPA 8260D
trans-1,3-Dichloropropene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,1,2-Trichloroethane	EPA 624	EPA 8260D	EPA 8260D
1,3-Dichloropropane	EPA 624 mod.	EPA 8260D	EPA 8260D
Toluene	EPA 624	EPA 8260D	EPA 8260D
2-Hexanone	EPA 624 mod.	EPA 8260D	EPA 8260D
Dibromochloromethane	EPA 624	EPA 8260D	EPA 8260D
1,2-Dibromoethane	EPA 624 mod.	EPA 8260D	EPA 8260D
Tetrachloroethene	EPA 624	EPA 8260D	EPA 8260D
1,1,1,2-Tetrachloroethane	EPA 624 mod.	EPA 8260D	EPA 8260D
Chlorobenzene	EPA 624	EPA 8260D	EPA 8260D
Ethylbenzene	EPA 624	EPA 8260D	EPA 8260D
m-Xylene	EPA 624 mod.	EPA 8260D	EPA 8260D
p-Xylene	EPA 624 mod.	EPA 8260D	EPA 8260D
Bromoform	EPA 624	EPA 8260D	EPA 8260D
Styrene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 624	EPA 8260D	EPA 8260D

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
o-Xylene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2,3-Trichloropropane	EPA 624 mod.	EPA 8260D	EPA 8260D
Isopropylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
Bromobenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
n-Propylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
2-Chlorotoluene	EPA 624 mod.	EPA 8260D	EPA 8260D
4-Chlorotoluene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,3,5-Trimethylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2,4-Trimethylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
Tert-Butylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,3-Dichlorobenzene	EPA 624	EPA 8260D	EPA 8260D
1,4-Dichlorobenzene	EPA 624	EPA 8260D	EPA 8260D
sec-Butylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
p-Isopropyltoluene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2-Dichlorobenzene	EPA 624	EPA 8260D	EPA 8260D
n-Butylbenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2,4-Trichlorobenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
Naphthalene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,2,3-Trichlorobenzene	EPA 624 mod.	EPA 8260D	EPA 8260D
Hexachlorobutadiene	EPA 624 mod.	EPA 8260D	EPA 8260D
1,4-Dioxane	EPA 624 mod.	EPA 8260D	EPA 8260D
2-Chloroethyl vinyl ether	EPA 624	EPA 8260D	EPA 8260D
2-Nitropropane	EPA 624 mod.	EPA 8260D	EPA 8260D

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Acetonitrile	EPA 624 mod.	EPA 8260D	EPA 8260D
Acrolein	EPA 624 mod.	EPA 8260D	EPA 8260D
Acrylonitrile	EPA 624 mod.	EPA 8260D	EPA 8260D
Allyl chloride	EPA 624 mod.	EPA 8260D	EPA 8260D
Benzyl chloride	EPA 624 mod.	EPA 8260D	EPA 8260D
Chloroprene	EPA 624 mod.	EPA 8260D	EPA 8260D
cis-1,4-Dichloro-2-butene	EPA 624 mod.	EPA 8260D	EPA 8260D
Diethyl ether	EPA 624 mod.	EPA 8260D	EPA 8260D
Ethyl methacrylate	EPA 624 mod.	EPA 8260D	EPA 8260D
Iodomethane	EPA 624 mod.	EPA 8260D	EPA 8260D
Isobutyl alcohol	EPA 624 mod.	EPA 8260D	EPA 8260D
Methacrylonitrile	EPA 624 mod.	EPA 8260D	EPA 8260D
Methyl methacrylate	EPA 624 mod.	EPA 8260D	EPA 8260D
Methyl tert-butyl ether (MTBE)	EPA 624 mod.	EPA 8260D	EPA 8260D
n-Butyl alcohol	EPA 624 mod.	EPA 8260D	EPA 8260D
Propionitrile	EPA 624 mod.	EPA 8260D	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 624 mod.	EPA 8260D	EPA 8260D
Vinyl acetate	EPA 624 mod.	EPA 8260D	EPA 8260D
Ethyl acetate	EPA 624 mod.	EPA 8260D	EPA 8260D
Xylene (total)	EPA 624 mod.	EPA 8260D	EPA 8260D
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 624 mod.	EPA 8260D	EPA 8260D
Methylcyclohexane	EPA 624 mod.	EPA 8260D	EPA 8260D
Pentachloroethane	EPA 624 mod.	EPA 8260D	EPA 8260D

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
<u>Semivolatiles</u>			
n-Nitrosodimethylamine	EPA 625	EPA 8270E	EPA 8270E
Pyridine	EPA 625 mod	EPA 8270E	EPA 8270E
Aniline	EPA 625 mod	EPA 8270E	EPA 8270E
bis(2-Chloroethyl)ether	EPA 625	EPA 8270E	EPA 8270E
Phenol	EPA 625	EPA 8270E	EPA 8270E
2-Chlorophenol	EPA 625	EPA 8270E	EPA 8270E
1,3-Dichlorobenzene	EPA 625	EPA 8270E	EPA 8270E
1,4-Dichlorobenzene	EPA 625	EPA 8270E	EPA 8270E
1,2-Dichlorobenzene	EPA 625	EPA 8270E	EPA 8270E
Benzyl alcohol	EPA 625 mod	EPA 8270E	EPA 8270E
bis(2-Chloroisopropyl)ether	EPA 625	EPA 8270E	EPA 8270E
2-Methylphenol	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitroso-di-n-propylamine	EPA 625	EPA 8270E	EPA 8270E
4-Methylphenol	EPA 625 mod	EPA 8270E	EPA 8270E
Nitrobenzene	EPA 625	EPA 8270E	EPA 8270E
Isophorone	EPA 625	EPA 8270E	EPA 8270E
2-Nitrophenol	EPA 625	EPA 8270E	EPA 8270E
2,4-Dimethylphenol	EPA 625	EPA 8270E	EPA 8270E
bis(2-Chloroethoxy) methane	EPA 625	EPA 8270E	EPA 8270E
2,4-Dichlorophenol	EPA 625	EPA 8270E	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625	EPA 8270E	EPA 8270E
Naphthalene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
4-Chloroaniline	EPA 625 mod	EPA 8270E	EPA 8270E
2,6-Dichlorophenol	EPA 625 mod	EPA 8270E	EPA 8270E
Hexachlorobutadiene	EPA 625	EPA 8270E	EPA 8270E
4-Chloro-3-methylphenol	EPA 625	EPA 8270E	EPA 8270E
2-Methylnaphthalene	EPA 625 mod	EPA 8270E	EPA 8270E
Hexachlorocyclopentadiene	EPA 625	EPA 8270E	EPA 8270E
2,4,6-Trichlorophenol	EPA 625	EPA 8270E	EPA 8270E
2,4,5-Trichlorophenol	EPA 625 mod	EPA 8270E	EPA 8270E

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
2-Chloronaphthalene	EPA 625	EPA 8270E	EPA 8270E
2-Nitroaniline	EPA 625 mod	EPA 8270E	EPA 8270E
Acenaphthylene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Benzaldehyde	EPA 625 mod	EPA 8270E	EPA 8270E
Pentachloroethane	EPA 625 mod	EPA 8270E	EPA 8270E
Acetophenone	EPA 625 mod	EPA 8270E	EPA 8270E
Hexachloropropene	EPA 625 mod	EPA 8270E	EPA 8270E
Caprolactam	EPA 625 mod	EPA 8270E	EPA 8270E
Safrole	EPA 625 mod	EPA 8270E	EPA 8270E
1,2,4,5-Tetrachlorobenzene	EPA 625 mod	EPA 8270E	EPA 8270E
Isosafrole	EPA 625 mod	EPA 8270E	EPA 8270E
1,4-Naphthoquinone	EPA 625 mod	EPA 8270E	EPA 8270E
1,3-Dinitrobenzene	EPA 625 mod	EPA 8270E	EPA 8270E
Pentachlorobenzene	EPA 625 mod	EPA 8270E	EPA 8270E
2,3,4,6-Tetrachlorophenol	EPA 625 mod	EPA 8270E	EPA 8270E
1,3,5-Trinitrobenzene	EPA 625 mod	EPA 8270E	EPA 8270E
Phenacetin	EPA 625 mod	EPA 8270E	EPA 8270E
Atrazine	EPA 625 mod	EPA 8270E	EPA 8270E
Pentachloronitrobenzene	EPA 625 mod	EPA 8270E	EPA 8270E
Pronamide	EPA 625 mod	EPA 8270E	EPA 8270E
Methapyrilene	EPA 625 mod	EPA 8270E	EPA 8270E
4,4'-Methylene bis(2-chloroaniline)	EPA 625 mod	EPA 8270E	EPA 8270E
2-Acetylaminofluorene	EPA 625 mod	EPA 8270E	EPA 8270E
Famphur	EPA 625 mod	EPA 8270E	EPA 8270E
2-Picoline	EPA 625 mod	EPA 8270E	EPA 8270E
o-Toluidine	EPA 625 mod	EPA 8270E	EPA 8270E
alpha, alpha-Dimethylphenethylamine	EPA 625 mod	EPA 8270E	EPA 8270E
1,4-Dioxane	EPA 625 mod	EPA 8270E	EPA 8270E
Acenaphthene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
3-Nitroaniline	EPA 625 mod	EPA 8270E	EPA 8270E
2,4-Dinitrophenol	EPA 625	EPA 8270E	EPA 8270E

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
Dibenzofuran	EPA 625 mod	EPA 8270E	EPA 8270E
2,4-Dinitrotoluene	EPA 625	EPA 8270E	EPA 8270E
4-Nitrophenol	EPA 625	EPA 8270E	EPA 8270E
Fluorene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
4-Chlorophenyl-phenylether	EPA 625	EPA 8270E	EPA 8270E
Diethylphthalate	EPA 625	EPA 8270E	EPA 8270E
4-Nitroaniline	EPA 625 mod	EPA 8270E	EPA 8270E
4,6-Dinitro-2-methylphenol	EPA 625	EPA 8270E	EPA 8270E
n-Nitrosodiphenylamine/ Diphenylamine	EPA 625	EPA 8270E	EPA 8270E
Hexachlorobenzene	EPA 625	EPA 8270E	EPA 8270E
Pentachlorophenol	EPA 625	EPA 8270E	EPA 8270E
Phenanthrene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Anthracene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Carbazole	EPA 625 mod	EPA 8270E	EPA 8270E
Di-n-butylphthalate	EPA 625	EPA 8270E	EPA 8270E
Fluoranthene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Pyrene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Butylbenzylphthalate	EPA 625	EPA 8270E	EPA 8270E
3,3'-Dichlorobenzidine	EPA 625	EPA 8270E	EPA 8270E
Benzo(a)anthracene	EPA 625	EPA 8270E	EPA 8270E
Chrysene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
bis(2-Ethylhexyl)phthalate	EPA 625	EPA 8270E	EPA 8270E
Di-n-octylphthalate	EPA 625	EPA 8270E	EPA 8270E
Benzo(b)fluoranthene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Benzo(k)fluoranthene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Benzo(a)pyrene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Indeno(1,2,3-cd)pyrene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Dibenz(a,h)anthracene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Benzo(g,h,i)perylene	EPA 625	EPA 8270E/8270E SIM	EPA 8270E/8270E SIM
Methyl methanesulfonate	EPA 625 mod	EPA 8270E	EPA 8270E
Aramite	EPA 625 mod	EPA 8270E	EPA 8270E

<u>Parameter/Analyte</u>	<u>Non-Potable Water</u>	<u>Solid Hazardous Waste</u>	
		<u>Aqueous</u>	<u>Solid</u>
7,12-Dimethylbenz(a)anthracene	EPA 625 mod	EPA 8270E	EPA 8270E
3-Methylcholanthrene	EPA 625 mod	EPA 8270E	EPA 8270E
1,1'-Biphenyl	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitrosomethylethylamine	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitrosodiethylamine	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitrosopyrrolidine	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitrosomorpholine	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitrosopiperidine	EPA 625 mod	EPA 8270E	EPA 8270E
Benzal chloride	EPA 625 mod	EPA 8270E	EPA 8270E
n-Nitrosodi-n-butylamine	EPA 625 mod	EPA 8270E	EPA 8270E
Phthalic acid/Phthalic anhydride	EPA 625 mod	EPA 8270E	EPA 8270E
5-Nitro-o-toluidine	EPA 625 mod	EPA 8270E	EPA 8270E
Phorate	EPA 625 mod	EPA 8270E	EPA 8270E
Disulfoton	EPA 625 mod	EPA 8270E	EPA 8270E
Methyl parathion	EPA 625 mod	EPA 8270E	EPA 8270E
Parathion	EPA 625 mod	EPA 8270E	EPA 8270E
p-Phenylenediamine	EPA 625 mod	EPA 8270E	EPA 8270E
1-Naphthylamine	EPA 625 mod	EPA 8270E	EPA 8270E
2-Naphthylamine	EPA 625 mod	EPA 8270E	EPA 8270E
Dinoseb	EPA 625 mod	EPA 8270E	EPA 8270E
4-Aminobiphenyl	EPA 625 mod	EPA 8270E	EPA 8270E
p-(Dimethylamino) azobenzene	EPA 625 mod	EPA 8270E	EPA 8270E
3,3'-Dimethylbenzidine	EPA 625 mod	EPA 8270E	EPA 8270E

<u>Parameter/Analyte</u>	<u>Description</u>	<u>Method</u>
N-nitrosodimethylamine	Nitrosamines by HRGC/HRMS Isotope Dilution	TAP-01-0403-015 Nitrosamines HRGCS/HRMS
N-nitrodimethylamine	Nitrosamines by HRGC/HRMS Isotope Dilution	TAP-01-0403-015 Nitrosamines HRGCS/HRMS
N-nitroso-di-n-propylamine	Nitrosamines by HRGC/HRMS Isotope Dilution	TAP-01-0403-015 Nitrosamines HRGCS/HRMS

Parameter/Analyte	Description	Method
N-Nitrosodiethylamine	Nitrosamines by HRGC/HRMS Isotope Dilution	TAP-01-0403-015 Nitrosamines HRGCS/HRMS
N-Nitrosopyrrolidine	Nitrosamines by HRGC/HRMS Isotope Dilution	TAP-01-0403-015 Nitrosamines HRGCS/HRMS
N-Nitrosodi-n-Butylamine	Nitrosamines by HRGC/HRMS Isotope Dilution	TAP-01-0403-015 Nitrosamines HRGCS/HRMS

<u>Parameter/Analyte</u>	<u>Air & Emissions</u>
<u>Volatiles</u>	
Dichlorodifluoromethane	TO-15/TO-14A
Methyl Chloride	TO-15/TO-14A
1,2-Dichloro-1,1,2,2-Tetrafluoroethane	TO-15/TO-14A
Vinyl chloride	TO-15/TO-14A
Methyl bromide	TO-15/TO-14A
Ethyl chloride	TO-15/TO-14A
Trichlorofluoromethane	TO-15/TO-14A
1,1-Dichloroethene	TO-15/TO-14A
Methylene Chloride	TO-15/TO-14A
1,1,2-Trichloro-1,2,2-Trifluoroethane	TO-15/TO-14A
1,1-Dichloroethane	TO-15/TO-14A
cis-1,2-Dichloroethylene	TO-15/TO-14A
Chloroform	TO-15/TO-14A
1,2-Dichloroethane	TO-15/TO-14A
1,1,1-Trichloroethane	TO-15/TO-14A
Benzene	TO-15/TO-14A
Carbon tetrachloride	TO-15/TO-14A
1,2-Dichloropropane	TO-15/TO-14A
Trichloroethylene	TO-15/TO-14A
cis-1-3-Dichloropropene	TO-15/TO-14A
trans-1,3-Dichloropropene	TO-15/TO-14A
1,1,2-Trichloroethane	TO-15/TO-14A
Toluene	TO-15/TO-14A

<u>Parameter/Analyte</u>	<u>Air & Emissions</u>
1,2-Dibromoethane	TO-15/TO-14A
Tetrachloroethylene	TO-15/TO-14A
Chlorobenzene	TO-15/TO-14A
Ethylbenzene	TO-15/TO-14A
m-Xylene	TO-15/TO-14A
p-Xylene	TO-15/TO-14A
Styrene	TO-15/TO-14A
1,1,2,2-Tetrachloroethane	TO-15/TO-14A
o-Xylene	TO-15/TO-14A
1,3,5-Trimethylbenzene	TO-15/TO-14A
1,2,4-Trimethylbenzene	TO-15/TO-14A
m-Dichlorobenzene	TO-15/TO-14A
Benzyl chloride	TO-15/TO-14A
o-Dichlorobenzene	TO-15/TO-14A
p-Dichlorobenzene	TO-15/TO-14A
1,2,4-Trichlorobenzene	TO-15/TO-14A
Hexachlorobutadiene	TO-15/TO-14A
Trans-1,2-Dichloroethylene	TO-14A
1,4-Dioxane	TO-15
Methyl methacrylate	TO-15
Heptane	TO-15
Vinyl Acetate	TO-15

<u>Parameter/Analyte</u>	<u>Air & Emissions</u>
<u>Radiochemistry</u>	
Gross Alpha	EPA 900.0
Gross Beta	EPA 900.0
Americium-241	HASL-300 Am-03-RC
Gamma, Radioassay	HASL-300 Ga-01-R
Plutonium	HASL-300 Pu-01-RC
Uranium	HASL-300 U-02-RC

<u>Parameter/Analyte</u>	<u>Biological Tissues</u>
<u>Radiochemistry</u>	
Plutonium	EPA EMSL LV 053917, p.33
Thorium	EPA EMSL LV 053917, p.33
Uranium	EPA EMSL LV 053917, p.33
Strontium-89/90	EPA EMSL LV 053917, p.65
<u>Metals</u>	
Aluminum	EPA 6010D, EPA 6020B
Antimony	EPA 6010D, EPA 6020B
Arsenic	EPA 6010D, EPA 6020B
Barium	EPA 6010D, EPA 6020B
Beryllium	EPA 6010D, EPA 6020B
Boron	EPA 6010D
Cadmium	EPA 6010D, EPA 6020B
Calcium	EPA 6010D
Chromium	EPA 6010D, EPA 6020B
Cobalt	EPA 6010D, EPA 6020B
Copper	EPA 6010D, EPA 6020B
Iron	EPA 6010D, EPA 6020B
Lead	EPA 6010D, EPA 6020B
Lithium	EPA 6010D
Magnesium	EPA 6010D, EPA 6020B
Manganese	EPA 6010D, EPA 6020B
Molybdenum	EPA 6010D
Nickel	EPA 6010D, EPA 6020B
Phosphorus	EPA 6010D
Potassium	EPA 6010D, EPA 6020B
Selenium	EPA 6010D, EPA 6020B
Silica	EPA 6010D
Silver	EPA 6010D, EPA 6020B
Sodium	EPA 6010D, EPA 6020B
Strontium	EPA 6010D
Thallium	EPA 6010D, EPA 6020B

<u>Parameter/Analyte</u>	<u>Biological Tissues</u>
Tin	EPA 6010D
Titanium	EPA 6010D
Uranium	EPA 6020B
Vanadium	EPA 6010D, EPA 6020B
Zinc	EPA 6010D, EPA 6020B
Mercury	EPA 7471B

<u>Parameter/Analyte</u>	<u>Radiochemistry TAPs For Various Matrices</u>
<u>Alpha Spectrometry</u>	
Am-241, Am-243, Cf-252, Cm-242, Cm-243/244, Cm-245/246, Np-237, Po-209, Po-210, Pu-236, Pu-238, Pu-239/240, Pu-241, Pu-242, Pu-244, Ra-226, Th-228, Th-229, Th-230, Th-232, U-232, U-233/234, U-235/236, U-238	TAP 01-0411-031 TAP 01-0411-043 TAP 01-0411-044 TAP 01-0411-045 TAP 01-0411-059
<u>Gamma Spectrometry</u>	
46 to 1836 keV, I-129, I-131, Ni-59	TAP 01-0411-015 TAP 01-0411-024 TAP 01-0411-019 TAP 01-0411-056 TAP 01-0411-057 TAP 01-0411-058
<u>Gas Flow Proportional Counting</u>	
Gross Alpha, Gross Beta, Total radium, Pb-210, Ra-228, Sr-89, Sr-90	TAP 01-0411-011 TAP 01-0411-007 TAP 01-0411-022 TAP 01-0411-050
<u>Liquid Scintillation</u>	
Tc-99, C-14, Fe-55, H-3, I-129, Ni-59, Ni-63, Pm-147, Pu-241	TAP 01-0411-005 TAP 01-0411-013 TAP 01-0411-019 TAP 01-0411-049 TAP 01-0411-052 TAP 01-0411-053 TAP 01-0411-054 TAP 01-0411-055 TAP 01-0411-057 TAP 01-0411-058

¹HASQARD Reviewed Laboratory



Accredited Laboratory

A2LA has accredited

SOUTHWEST RESEARCH INSTITUTE

San Antonio, TX

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2009 TNI Environmental Testing Laboratory Standard, and the requirements of the Department of Energy Consolidated Audit Program (DOECAP) as detailed in version 5.3 of the DoD/DOE Quality System Manual for Environmental Laboratories (QSM), accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 24th day of May 2021.

A blue ink signature of a man, written over a horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5044.01
Valid to April 30, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.